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RECOMMENDATIONS FOR
IMPROVING THE TIMBER STAND

KILL UNDESIRABLE TREES SO AS TO PERMIT GROWTH OF COMMERCIALY VALUABLE TREES

U. S. DEPARTMENT OF AGRICULTURE - FOREST SERVICE, SOUTHERN REGION
ATLANTA, GEORGIA



LOOK FOR THIS CONDITION: Pine seedlings and saplings overtopped by large, unmerchantable hardwoods.



HARRY
ROSSOLU

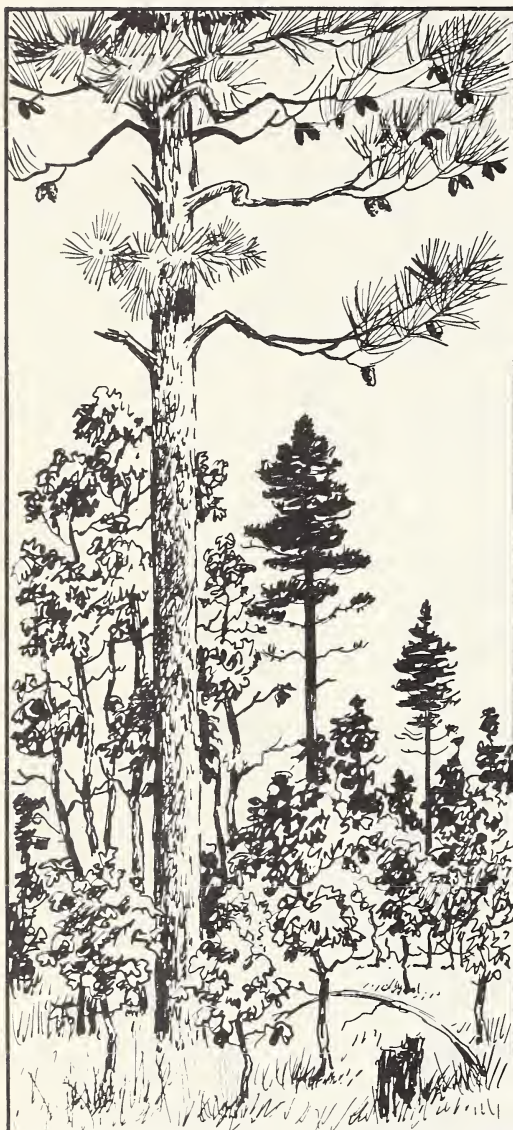


LOOK FOR THIS CONDITION:
Small pine seedlings overtopped by
low-grade hardwood saplings.



LOOK FOR THIS CONDITION:-

Pine seedlings overtopped by undesirable hardwoods under 12" in diameter



LOOK FOR THIS CONDITION

Areas with pine seed trees but no pine seedlings. Hardwood trees prevent pine seedling establishment.



LOOK FOR THIS CONDITION

Areas with scrub oak or other undesirable hardwoods but no pine seed trees or pine seedlings.

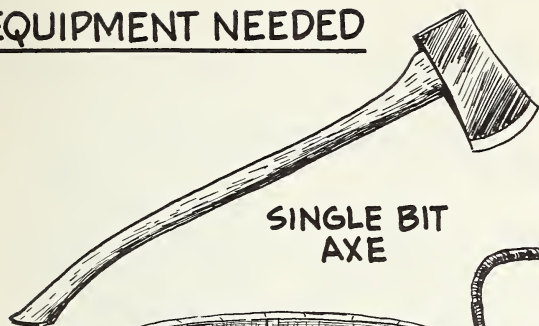
TECHNICAL SPECIFICATIONS

Area to be treated should have seedlings of commercially valuable species already established which will be released by the killing of undesirable hardwoods...

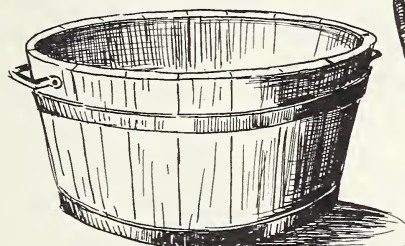
...or the area to be treated should have healthy seed producing trees of commercially valuable species to obtain prompt and adequate reseeding. Under this condition chemicals should be used to reduce sprouting. This treatment should be done during a year when seed fall is heavy...

...or if the area to be treated does not have seedlings nor seed trees, then the area should be planted with seedlings of commercially valuable trees in the space released by killing undesirable hardwoods.

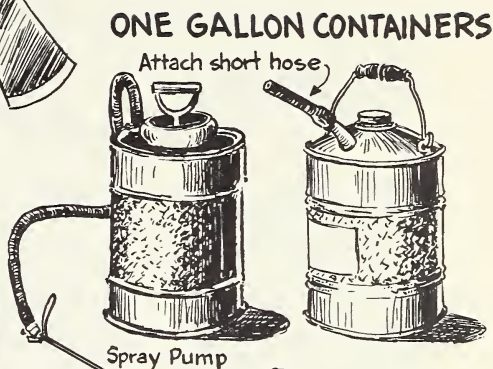
EQUIPMENT NEEDED



SINGLE BIT
AXE



MIXING VAT- WOOD
PREFERRED



ONE GALLON CONTAINERS

Attach short hose

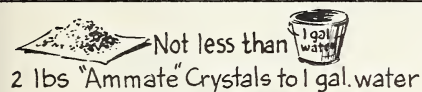
Spray Pump



"AMMATE" CRYSTALS
(Ammonium Sulfamate)
Corrosive to metal

USE WOODEN OR
PLASTIC SPOON

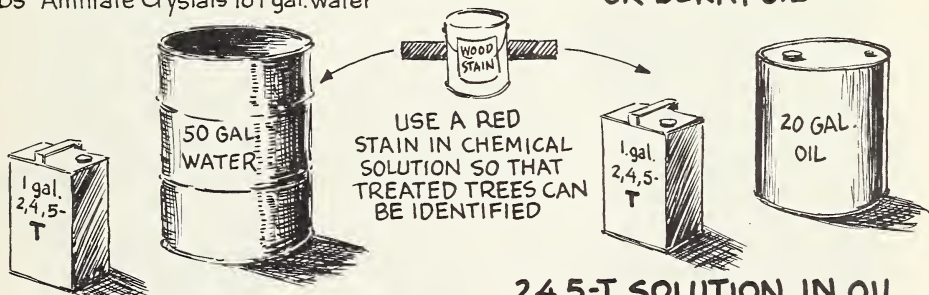
CHEMICALS MAY BE PURCHASED AT LOCAL HARDWARE OR SEED DEALER



Not less than

2 lbs "Ammate" Crystals to 1 gal. water

USE DIESEL FUEL OIL
OR BURNT OIL

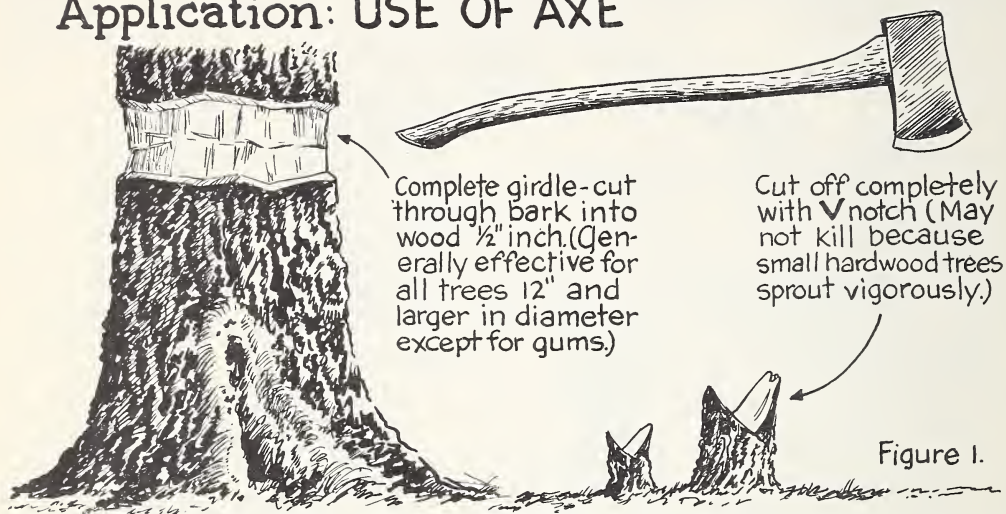


2,4,5-T SOLUTION IN WATER
1 gal. 2,4,5-T to 50 gallons water
(Must be kept agitated)

2,4,5-T SOLUTION IN OIL
1 gallon 2,4,5-T to 20 gallons oil
(Must be kept agitated)

"AMMATE" AND 2,4,5-T SOLUTION ARE NON-TOXIC TO ANIMALS

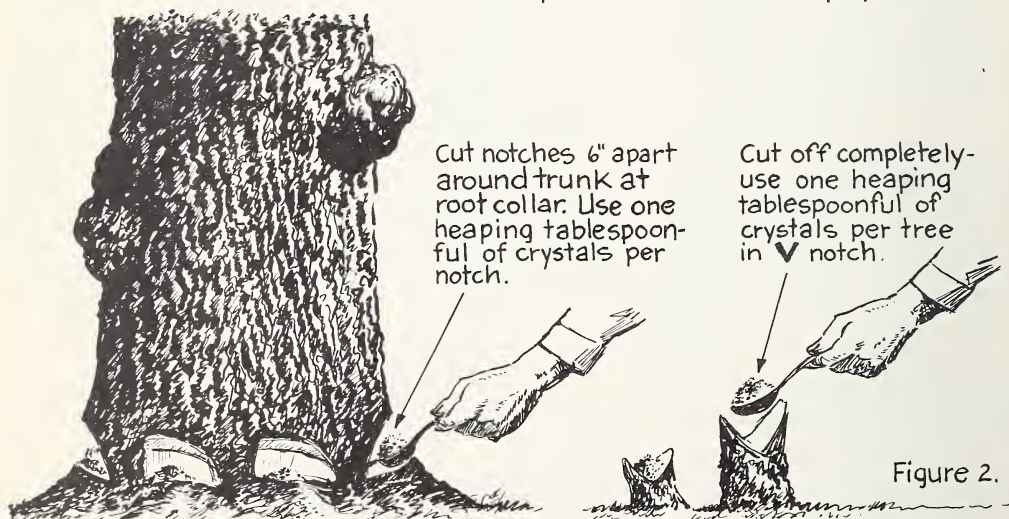
Application: USE OF AXE



The above practice will kill many trees. A more certain job will be done and kill will be quicker if tree killing chemicals are used as shown in Figures 2, 3, 4.

Application: AMMATE IN DRY CRYSTAL FORM

Corrosive to metal-Use protected coated equipment



(Note: Save an occasional food and den tree for wildlife)

Application: CHEMICALS IN SOLUTION

Ammate or 2,4,5-T in water or 2,4,5-T in oil
ESPECIALLY EFFECTIVE FOR GUMS AND OAKS



Frill girdle-cut through bark into wood. Solution poured in girdle - fill cuts with solution.

Cut V notch-Wet notch and top of stump thoroughly.

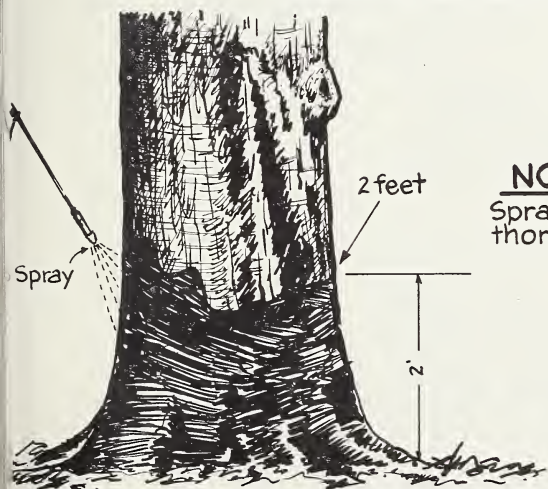


Figure 3.

Use a red stain or dye in chemical solution so that treated trees can be readily identified

Application: BASAL SPRAY, 2,4,5-T IN OIL

Especially effective for beech and hickory



NO CUT
Spray base thoroughly

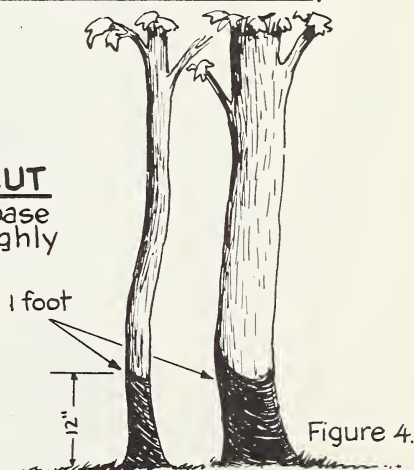


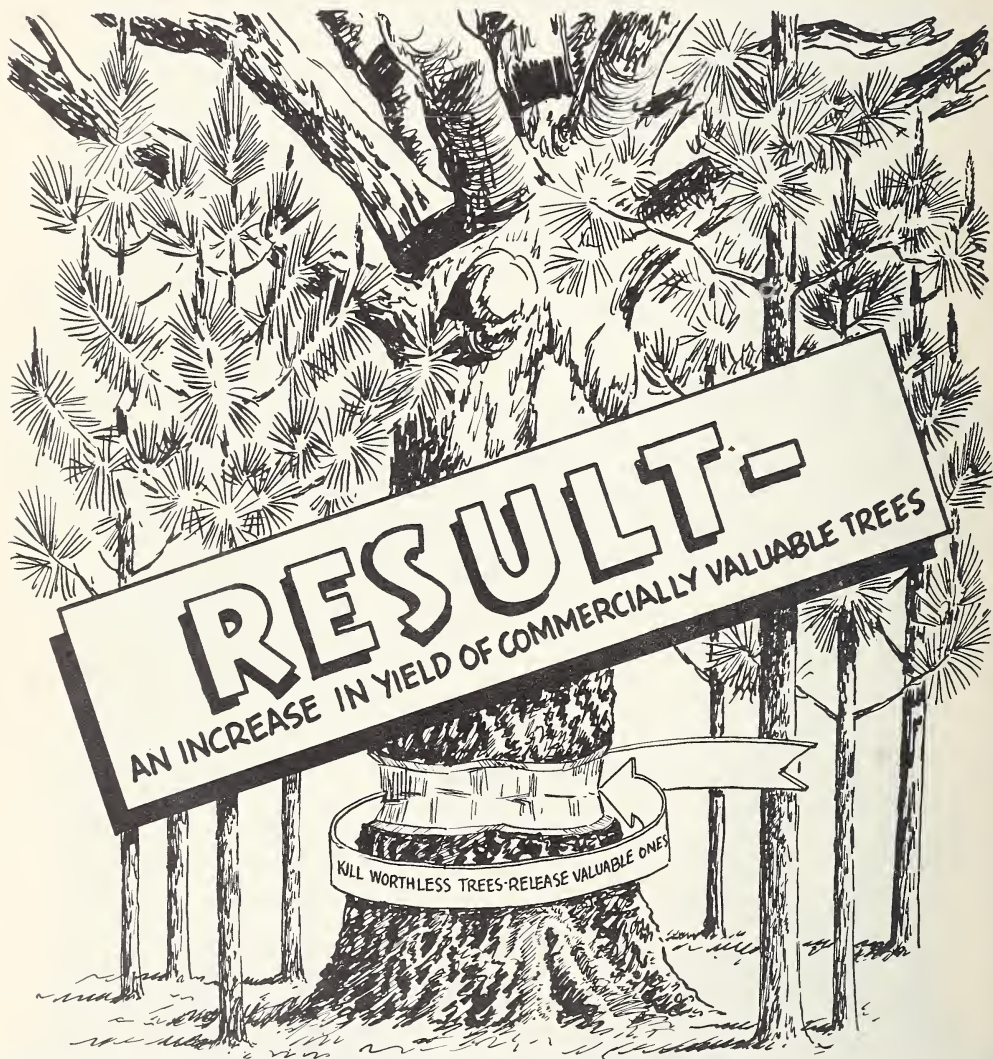
Figure 4.

MOST EXPENSIVE METHOD

Note: Save your good hardwoods to grow!)

WHY... Timber Stand Improvement?

... RELEASE GOOD YOUNG TREES FROM OVERHEAD COMPETITION



Technical Information from U. S. Forest Service - Department of Agriculture - Atlanta, Georgia

